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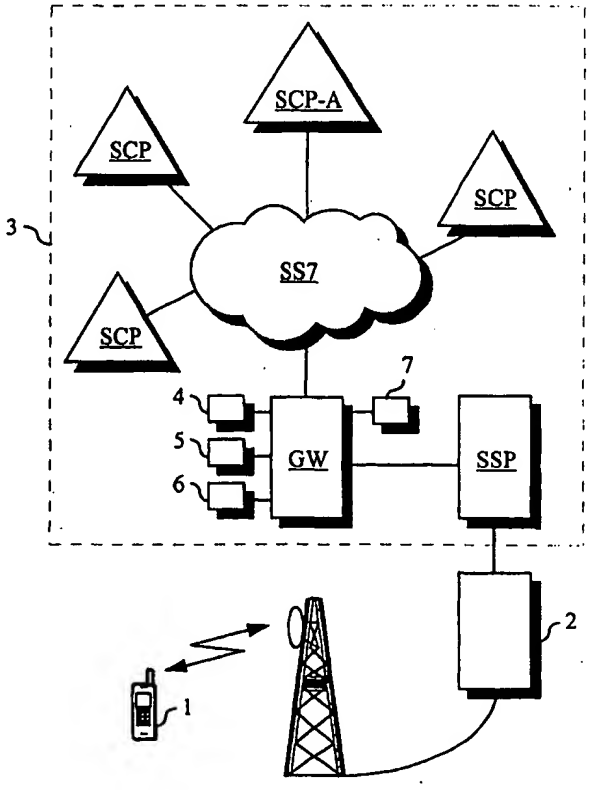
(54) Title: METHOD AND SYSTEM FOR FORMING A TELECOMMUNICATION CONNECTION

(57) Abstract

System for establishing and controlling a telecommunication connection in a telecommunication network comprising a telecommunication terminal (1), a telephone exchange (2) and an intelligent network (3) comprising a service switching point (SSP), a gateway (GW), a signaling network (SS7) and one or more service control points (SCP). The service switching point (SSP) is connected to the gateway (GW) and the gateway is further connected to the signaling network (SS7). The service control points (SCP) are connected to the signaling network (SS7). In the method of the invention, the establishment and control of the telecommunication connection are managed by means of the intelligent network. The signaling associated with the telecommunication connection to be established is directed to a predetermined service control point (SCP–A) by setting the A–party number as the Global Title address of the signaling message.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 99/00844

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04Q 3/00
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 8214063 A (FUJITSU LTD) 1996-08-20 (abstract) World Patents Index (online). London, U.K.: Derwent Publications, Ltd. (retrieved on 2000-04-07) Retrieved from: EPO WPI Database. DW199643, Accession No. 1996-431067 & JP 8214063 A (FUJITSU LTD) 1996-12-26 (abstract) (online) (retrieved on 2000-04-07).Retrieved from: EPO PAJ Database.	1,5
Y	--	2-4,6-7
X	EP 0534673 A2 (AMERICAN TELEPHONE AND TELEGRAPH COMPANY), 31 March 1993 (31.03.93)	1
Y	--	2-7

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Stefan Hermansson/MP Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 99/00844

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9608909 A1 (BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY), 21 March 1996 (21.03.96), page 7, line 24 - page 9, line 14; page 10, line 30 - page 11, line 29	1
Y		2-7
	--	
Y	WO 9818269 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 30 April 1998 (30.04.98), page 4, column 1 - line 21	2-4,6
	--	
X	GB 2315639 A (TELEFONAKTIEBOLAGET LM ERICSSON), 4 February 1998 (04.02.98), page 3, line 8 - line 23; page 3, line 35 - page 4, line 8	1
A		2-7
	--	
A	WO 9745792 A1 (BELL COMMUNICATIONS RESEARCH INC.), 4 December 1997 (04.12.97), page 19, line 20 - page 21, line 2	1-7
	--	

INTERNATIONAL SEARCH REPORT

Information on patent family members

02/12/99

International application No.
PCT/FI 99/00844

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0534673 A2	31/03/93	CA 2078246 A,C	24/03/93
		DE 69215818 D,T	26/06/97
		JP 2768876 B	25/06/98
		JP 7131527 A	19/05/95
		US 5510777 A	23/04/96
WO 9608909 A1	21/03/96	AU 687247 B	19/02/98
		AU 3480895 A	29/03/96
		CA 2199512 A	21/03/96
		CN 1158198 A	27/08/97
		EP 0781484 A	02/07/97
		FI 970932 A	05/03/97
		GB 9503939 D	00/00/00
		JP 10505972 T	09/06/98
		NZ 292597 A	26/06/98
		US 5867498 A	02/02/99
WO 9818269 A1	30/04/98	AU 4797397 A	15/05/98
		AU 4797497 A	15/05/98
		AU 4797597 A	15/05/98
		EP 0932984 A	04/08/99
		EP 0932985 A	04/08/99
		EP 0953257 A	03/11/99
		NO 991773 A	15/06/99
		NO 991774 A	16/06/99
		WO 9818268 A	30/04/98
		WO 9818270 A	30/04/98
GB 2315639 A	04/02/98	AU 4201497 A	10/02/98
		CA 2260815 A	29/01/98
		EP 0913065 A	06/05/99
		GB 9615154 D	00/00/00
		WO 9804090 A	29/01/98
WO 9745792 A1	04/12/97	CA 2252792 A	04/12/97
		EP 0901656 A	17/03/99
		US 5878224 A	02/03/99